

MIKIRTUMOV, E.

AID P = 3104

Subject

: USSR/Aeronautics

Card 1/1

Pub. 58 - 9/19

Author

: Mikirtumov, E., Kan. of Tech. Sci.

Title

: Jet Aircraft

Periodical : Kryl. rod., 8, 10-14, Ag 1955

Abstract

: The author is concerned with the working principles of a jet aircraft and its comparison with propeller aircraft. He describes the take off, maximum speed, range of speed, maneuverability and special features of piloting. A full page drawing shows a jet aircraft and its parts. The Mig-15 and Mig-18 aircraft and names of well known designers are mentioned. Diagrams and graphs.

Institution: None

Submitted

: No date

CIA-RDP86-00513R001134130004-4" APPROVED FOR RELEASE: 06/14/2000

MikiRtuMou, E. BHASE : BOOK EXPLOITATION

GER/6316

Wassiljew, G. S. [G. S. Vasil'yev], N. M. Lyssenko [N. M. Lysenko], and E. B. Mikirtumov]

Aerodynamik and Flugmechanik bei schallnahen Geschwindigkeiten; eine kurzgefasste Darstellung in leichtverständlicher Form. [Berlin] (Aerodynamics and Flight Mechanics at Near-Sonic Velocities; a Brief Presentation in an Easily Comprehensible Form). Verlag des Ministeriums für Nationale Verteidigung [1959] 331 p. Transl. of Aerodinamicheskiye osobennosti reaktivnykh samoletov-istrebiteley (Aerodynamic characteristics of jet fighters). Moscow, 1956. 264 p. Errata slip inserted. Number of copies printed not given.

Translated by Dieter Rauch; Tech. Ed.: Fritz Seidler, Diploma Engineer.

PURPOSE: This book is intended for flight and engineering personnel of the Air Force. It may also be useful to students at technical institutes concerned with aircraft design.

Card 1/8

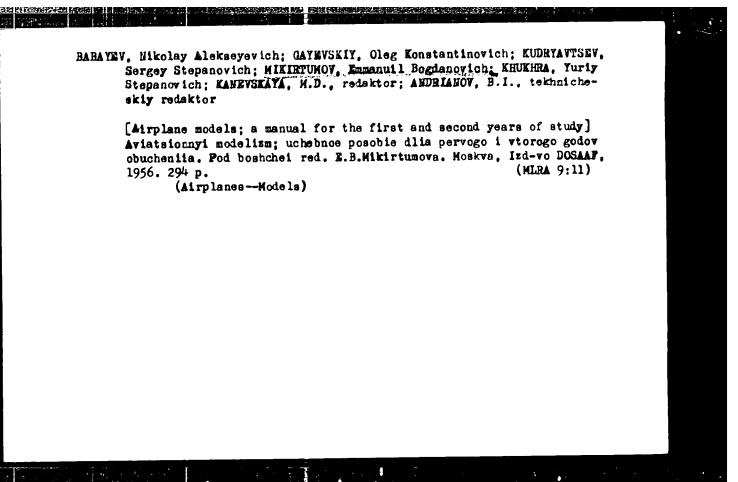
Aerodynamics and Flight Mechanics (Cont.)

GER/6316

COVERAGE: The book discusses the most important characteristics of high-speed nerodynamics. Flight mechanics, control characteristics, and maneuverability of jet-propelled fighter aircraft and their effect on the most important operational parameters are discussed. Particular attention is given to longitudinal and directional stability at sonic or near-sonic speeds. The relationships between the rotation of an airplane about its longitudinal axis and the altitude loss in pulling an aircraft out of a nose dive are explained. The spin peculiarities of modern aircraft, e.g., in initiating and terminating spins, and the causes for the nonuniformity of the rotation are treated in detail. Since some characteristic properties of modern jet aircraft are associated with the strongly sweptback airfoils of these airplanes, the book contains sections on the flow around a sweptback wing and the aerodynamic and flight-mechanical properties of aircraft with sweepback. The original Russian edition of the book was written as follows: Sections I, II, VI, and VII, by N. M. Lysenko, sections IV and V, by E. B. Mikirtumov, sections IX and X, by G. S. Vasil'yev, and section III, VIII, and XI,

Card 2/85

Aerodynamics and Flight Mechanics (Cont.)	GER/6316	
by E. B. Mikirtumov and N. M. Lysenko. The German tra made by Dieter Rauch and the drawings by Arthur Gärtner. alities are mentioned. There are no references.	nslation was No person-	
TABLE OF CONTENTS:		
Preliminary Remark	5	
Fr Gillima.	7	
List of Symbols		
	11	
I. Aerodynamics of the Lifting Surfaces at High Speeds  1. The pressure distribution over the wing profile	11	
	20	-
3. The effect of the density variation of the desired	26	
4. The effect of the density variation of the air on the aerodynamic parameters at supercritical velocities	35	
Card 3/95		
7		



AID P - 5581

Subject : USSR/Aeronautics - bibliography

Card 1/1 Pub. 135 - 20/27

: Mikirtumov, E. B., Eng.-Col., Cand. of tech sci. and N. M. Lysenko, Eng.-Lt. Col. Cand. of tech. sci. Authors

Title : Speeds, accelerations, load factors

Periodical: Vest. vozd. flota, 6, 81-83, Je 1956

Abstract

: Critical review of the book "Speeds, Accelerations, Load Factors" (Skorosti, Uskoreniya, Peregruzki), by R. A. Stasevich and P. K. Isakov, published by the Defense Ministry of USSR, Moskva, 1956, 84 pages.

Institution: None

Submitted : No date

MIKIRTUMOV, E.B., kand.tekhn.nauk; LEBEDINSKIY, M.S., kand.tekhn.nauk;
STAKHURSKIY, A.Ie., ryd.; KORNEYEVA, V.I., tekhn.red.

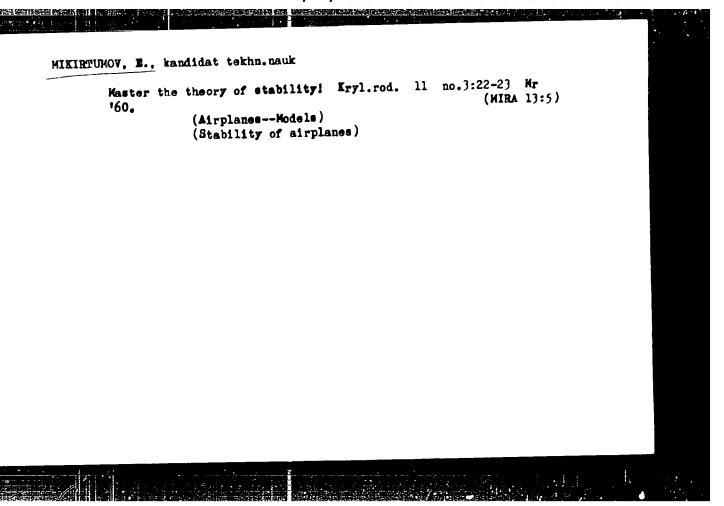
[Model airplane building; collection of articles. A manual for leaders of model airplane clubs and teachers] Aviamodelism;
leaders of model airplane clubs and teachers] Aviamodelism;
abornik statei. Posobie dlia rukovoditelei aviamodel'nykh krushkov abornik statei. Moskva. Gos.uchebno-pedagog.isd-vo M-va prosv.RSFCR.

(MIRA 13:5)

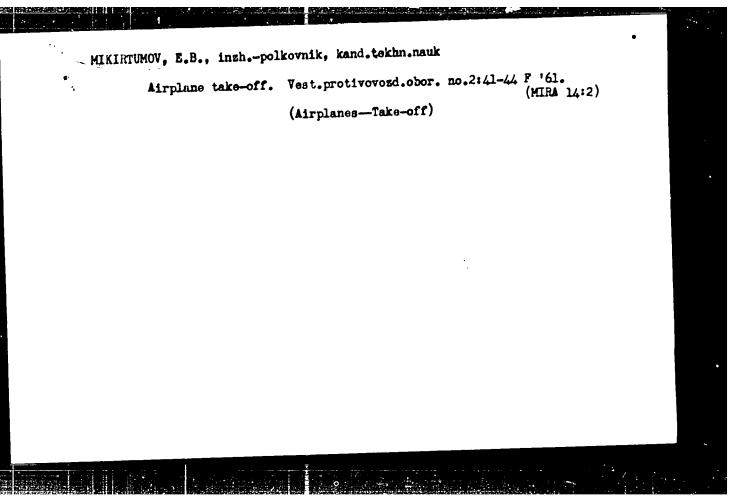
(Airplanes---Models)

BABAYEV, Wikolay Alekseyevich; GAYEVSKIY, Oleg Konstantinovich; IVAMNIKOV, Dmitriy Andreyevich; KUDRYAVTSEV, Sergey Stepanovich; MIKIRTUMOV, Emmanuil Hogdanovich; KHUKHRA, Yu.; YEFREMOVA, Ye.V., red.; KARYAKINA, W.S., tekhn. red.

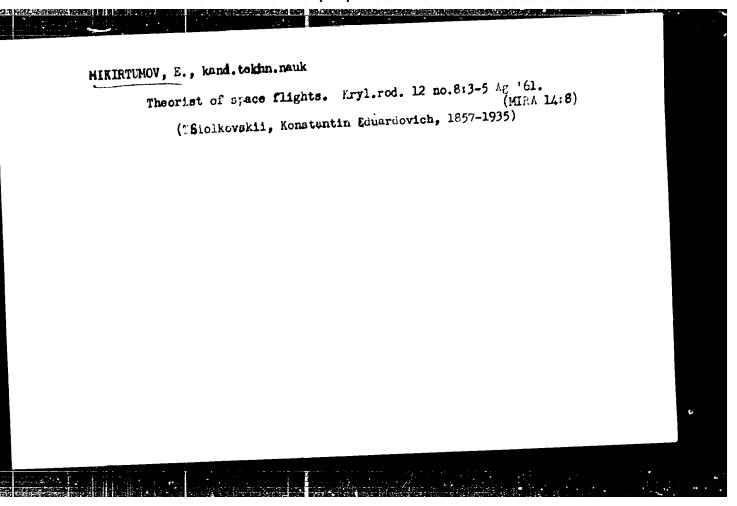
[Airplane modeling; manual for makers of airplane models and instructors of circles for the first and second training year] Aviatsionnyi modelism; uchebnoe posovie dlia aviamodelistov i rukovoditelei kruzhkov pervogo i vtorogo godov obucheniia. Izd. 2., perer. i dop. Pod obshchei red. E.B.Mikirtumova. Moskva, Izd-vo DOSAAF, 1960. 286 p. (MIRA 14:5)



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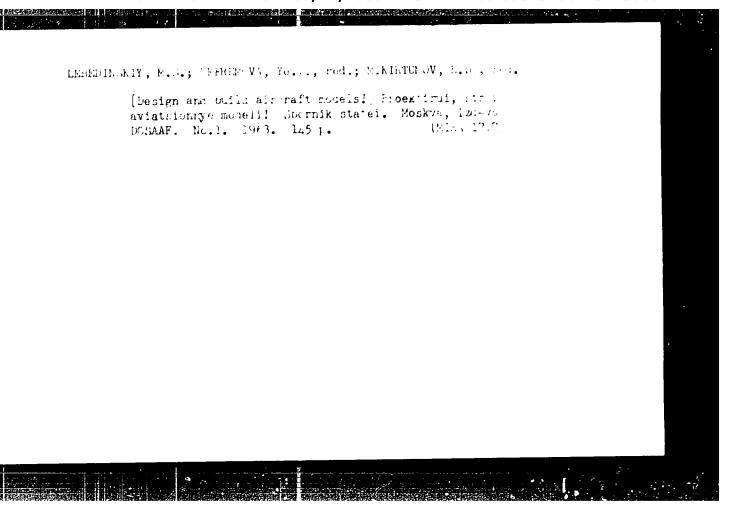
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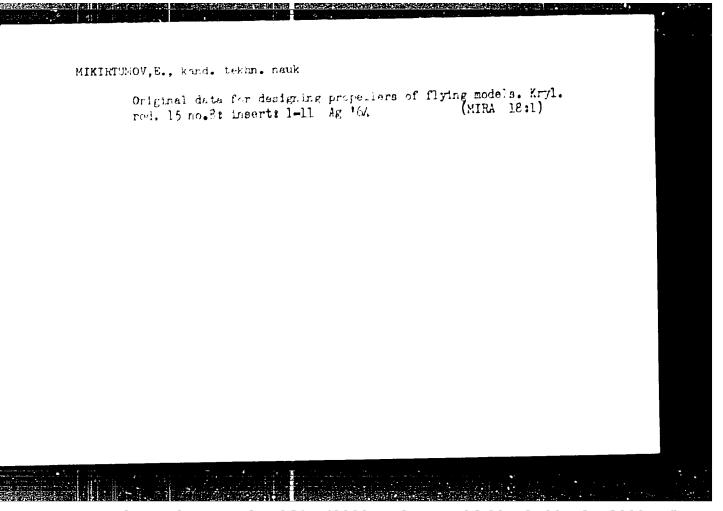


MIKIRTUMOV, E.B., kand. tekhn. nauk, inzhener-polkovnik

Landing of an airplane. Vest. protivovozd. obor. no.ll:
36-39 % '61. (MIRA 16:10)

(Airplanes-Landing)





MIKIRTUMOV, S. M.

Prostate Gland - Diseases

Hypertrophy of the prostate gland. Fel'd. i akush. No. 3, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

# MIKIRTUMOV, S.M. Air cyst of the small intestine. Ehirurgiia no.10:87 0 '55. (MIRA 9:2) 1. Iz kaffelff übelicher i gespital'noy khirurgii sanitarnogigiyenicheskogo fakul'teta 1 Moskovskogo ordena Lenina meditsinskogo instituta. (INTESTINES--TUMORS) (CYSTS)

# Mikirtumov, S.M. Materials on surgery in cancer of the pancreas. Vest. khir. 77 no.1: 51-54 Ja '56 (MIRA 9:5) 1. Iz kliniki obshchey i gospital'noy khirurgii sanitarno-gigiyonicheskogo fakul'teta (zav. kaf. - prof. A.M. Velikoretskiy) 1-go Moskovskogo ordena Lenina meditsinskogo instituta. (PANCREAS, neoplasms surg.)

MIKIRTUMOV, S. M. Cend Med Sci -- (diss) "Role of anticoagulants in the treatment of thrombophlebitis of the lower extremities." Mos, 1957. 14 pp (1st Mos Order of Lenin Med Inst im I. M. Sechenov), 200 copies (AL, 43-57, 91)

ACCEPTA MEDICA Sec.13 Vol.2/3 Cardiovascular Dis. Marson Mikirovascular Dis. Marson Mikirovascular (Russian text) Mikirovascular (Mikirovascular Dis. Mikirovascular (Mikirovascular Dis. Mikirovascular (Mikirovascular Dis. Mikirovascular Dis. Mikirovascular Dis. Mikirovascular (Mikirovascular Dis. Mikirovascular Dis. Mikirova

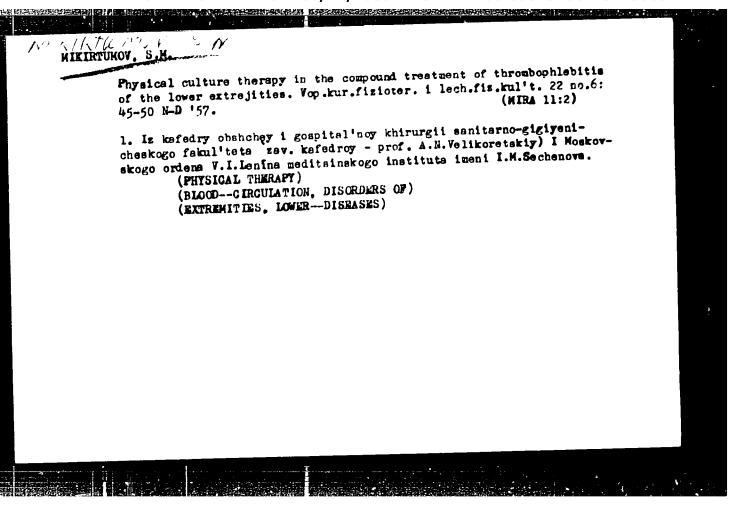
MIKIRTUMOV, S.M.

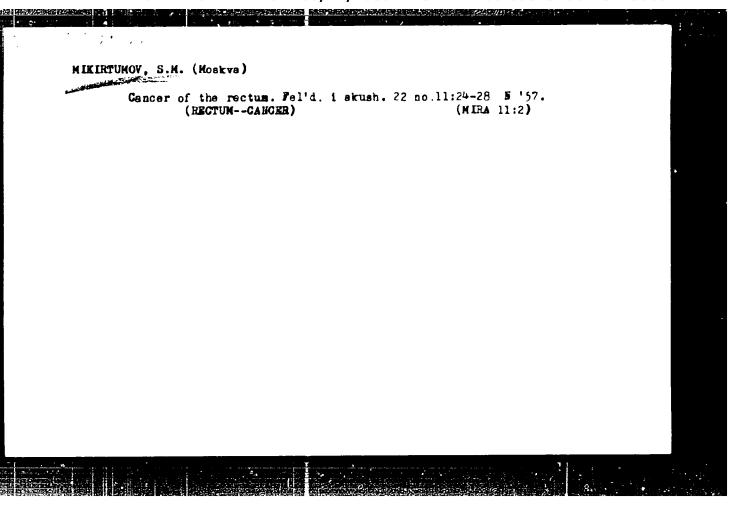
One-stage parcreaticoduodenal resection in a case of tumor of the ampula of the common bile duct. Sov.med. 21 no.2:108-110 f '57.

(MLRA 10:6)

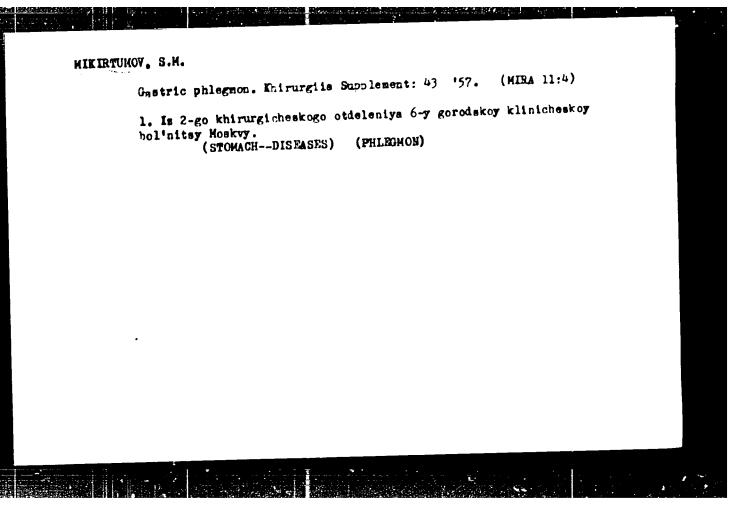
1. Is kliniki obshchey i gospital'noy khirurgii sanitarnogigiyenicheskogo fakul'teta (zav. - prof. A.M.Vilikoretakiy)
I Moskovskogo ordena lenina meditsinekogo instituta imeni I.M.
Sechenova.

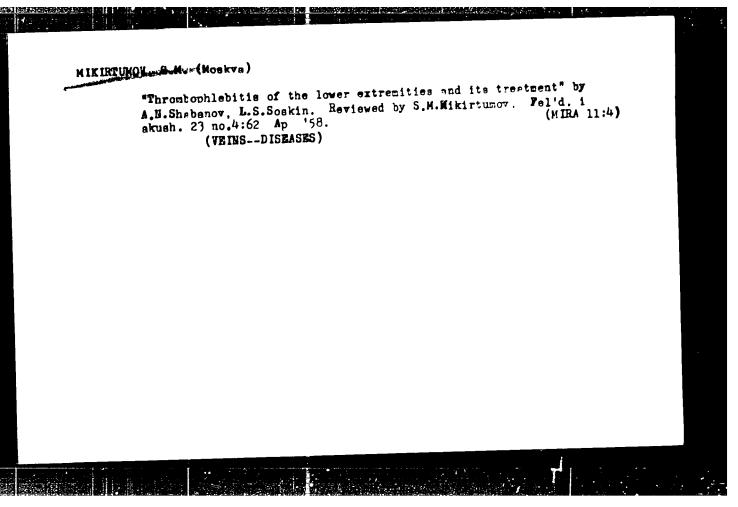
(PANCREAS, neoplasma
surg., one-stage pancreaticoduodenal resection)





# Dicoumarin treatment of thrombophlebitis of the lower extremities [with summary in English] Entrurgita 33 no.7:112-115 J2 '57. (MIRA 10:11) 1. Iz kliniki obshchey i gospital'noy khirurgii sanitarno-gigiyenicheskogo fakul'teta (zav. - prof. A.E. Velikoretakiy) I Moskovekogo ordenn Lenina meditainskogo instituta ineni I.M. Sechenova. (COUMARIM, rel. cpda. bishydroxycoumarin, ther. of thrombophlebitis of legs) (THROMBOPHLEBITIS, thor. bishydroxycoumarin in thrombophlebitiz of legs)





VELIKORETSKIY, A.H., prof.; <u>HIKIFTUMOV. S.M.</u>, kand.med.nauk; KOCHIASHVILI, V.I., kand.med.nauk; KASAIKIHA, T.H., kand.med.nauk; GALEYEV,

M.A.; KAMALOV, M.Kh.; POTEKAYEVA, M.A., kend.med.nauk; SPASSKAYA,

P.A.; VOIKOV, V.A., red.; GRECHISHCHEV, V.A., tekhn.red.

[Surgery for pancreatic cancer] Operativnoe lechenie raka poduheludochnoi zhelezy. Moskva, Izd-vo I-go Mosk.med.in-ta, 1959. 173 p. (MIRA 13:10)

1. Klinika obshchey i gospital'noy khirurgii sanitarno-gigiyenicheskogo fakul'teta 1-go Moskovskogo ordena Lenina meditsinskogo instituta im. I.M. Sechenova (for Kochiashvili, Mikirtumov, Velikoretskiy).

(PANCREAS--CANCER)

MIKIRTUMOV, S.M.; VARNOVITSKIY, G.I.; SMIRNOVA, K.F.

Diagnostic possibilities of intravenous cholography in the detection of diseases of the biliary tract and gall bladder. Sov.med. 26 no.12:25-28 D '62. (MIRA 16:2)

1. Iz kafedry obehchey khirurgii (zav. - prof. A.N. Shabanov)
sanitarno-gigiyenicheskogo fakul'teta i kafedry rentgenologii
(zav. - prof. L.D. Lindenbraten) I Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M. Sechenova.

(HILIARY TRACT-RADIOGRAPHY) (GALL BLADDER-RADIOGRAPHY)

### MIKIRTUMOV, S.M., dotsent

Extent of resection in tumors of the large duodenal papilla.

Vest. khir. no.1250-58'63. (MIRA 16:7)

1. Iz kliniki obshchey khirurgii (zav.-prof. A.N.Shabanov) sanitarno-gigiyenicheskogo fakuliteta l-go Moskovskogo ordena
Lenina medifainskogo instituta imeni I.M.Sechenova na baze gorodskoy bolinitsy no.24.(glavnyy vrach - V.A.Uspenskiy)
(DUODENUM-TUMORS) (DUODENUM-SURGERY)

SEMENDYAYEVA, M.Ye.; GUSEVA, T.M.; PONOMAREVA, O.A.; LAPKINA, G.V.; MIKIRTUMOV, S.M.

Activity of arginase in the blood serum and points of the liver during Botkin's epidemic hepatitis. Vop.med.virus. no.9:275-281 (MIRA 18:4)

1. Iz laboratorii deystvitel'nogo chlena AMN SSSR prof. Ye.M. Tareyeva.

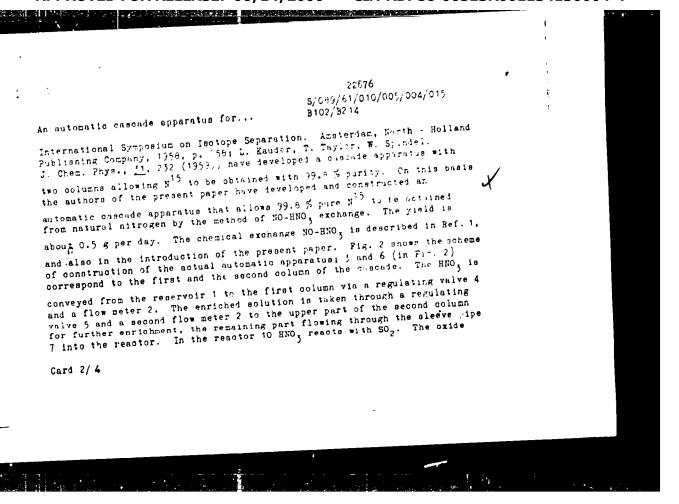
SHABANOV, A.N., prof.; MIKIRTUMOV, S.M., kand. med. nauk; 1425H131A474, V.I., studentka VI kursa.

Postoperative pancreatitis in surgical practice. Knirurgiia 39 no.6: 56-62 Je '63.

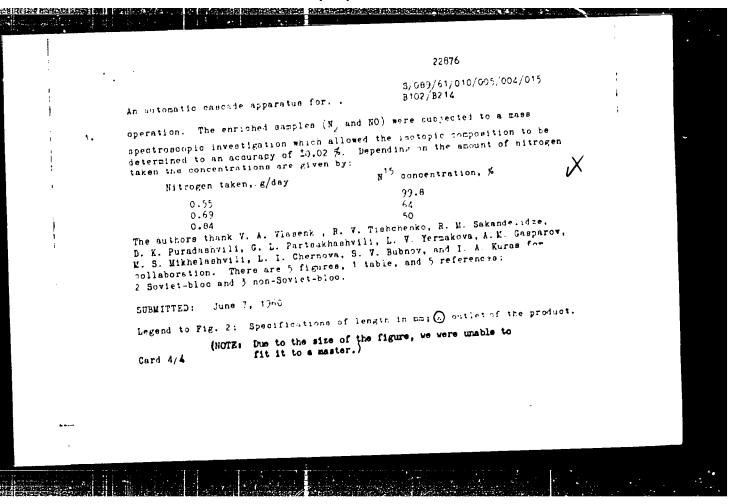
1. Iz kliniki obshchey z irurgii (zav. - prof. k.). bizabeheve sanitarno-gigiyenicheskogo faki. teta i Moskevskovo erleba Lenina meditalnakogo instituta imeni Bernenova.

# MUSKHELISHVILI, G.N.; MIKIRTUMOV, V.R. Microflowmeter for liquids. Prib.i tekh.eksp. 6 no.5:174-176 (MIRA 14:10) S-0 '61. 1. Institut elektroniki, avtomatiki i telemekhaniki AN Gruzinskoy SSR. (Flowmeter)

22876 8/089/61/010/005/004/015 B102/B214 21,3200 Gverdtsiteli, I. G., Mikolayev, Yu. V., Oziasnvili, Ye. D., Ordzhonikidze, K. G. Kuskhelishvili, G. N., Kiladze, N. Sh., AUTHORS: Mikirtumov, V. R., hakhtadze, Z. I. An automatic cascade apparatus for obtaining highly concentrated heavy nitrogen isotope TITLE: PERIODICAL: Atomnaya energiya, v. 10, no. 5, 1361, 487-432 TEXT: The growing use of  $\pi^{15}$  in different domains (for example,  $\pi^{15}$ nitrates in homogeneous reactors;  $N^{15}$  has a thermal neutron capture cross Xsection of 2.10-5b, whereas the value for natural nitrogen is 1.8b) makes it of interest to develop suitable methods for the preparation of this isotope. The principal difficulty lies in the smallness (0.365%) of N<sup>15</sup> content in the natural nitrogen. Spindel and Taylor (Ref. 1: W. Spindel, T. Taylor, J. Chem. Phys., 25, 981 (1955); 24, 626 (1956); Trans. N. Y. and. Sci., 19, 3 (1956); T. Taylor, W. Spindel. Proceedings of the Card 1/4



5/039/61/010/005/004/015 An automatic cascade apparatus for ... mixture produced is led into the column 3 where it reacts with hitric acid with isotope exchange. The HNO  $_{3}$  from column 6 enters the reactor 9 (which is analogous to the reactor 10). The mitric oxide from the reactors is brought back to the column 6 and remotes finally the lower part of the first column. The NO free of N 15 is discharged from the cascade; the  $\mathrm{H_2SO_4}$  formed in the reactors is led off to the reservoir. The  $\mathrm{HNO_3}$ enriched in N15 is led away from the lower part of the second column through an electromagnetic dropper 8. Columns, valves, and connecting pieces are made of nonrusting steel of the type 1X19M9T (1Kh19N9T). The packing material is teflon. The reactors consist of quartz. The automatic regulation is related to the stabilization of the acid and water flows in the large and small reactor, to the stabilization of the quantity of the discharged product (acid), and the regulation of the gas addition. The regulating system consists of the automatic stabilizers, a signal block controlling the automatic regulators and stabilizers, and a feeding block. The whole regulating system is free from contacts in its working and must give an accurate and reliable performance over a period of Card 3/4



### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134130004-4

MUSKHELISHVILI, G.N.; MIKIRTUMOV, V.R.

Transistorized precision voltage and current stabilizers.
Prib. i tekh. eksp. 8 no.6:116-118 N-D '63. (MIRA 17:6)

1. Institut elektroniki, avtomatiki i telemekhaniki AN GruzSSR.

## MIKIRTUHOVA, Ye.V.

Late observations of minute blood volume following total and partial pneumonectomy in humans. Terap. arkh. 30 no.4:30-36
Ap. 158. (MIRA 11:4)

1. Is Leningradskogo nauchno-isaledovatel'skogo instituta eksnertisy trudosposobnosti i trudoustroystva invalidov.

(BLOOD VOLUME, minute, after pneumonectomy (Rus) (PMEUMONECTOMY,

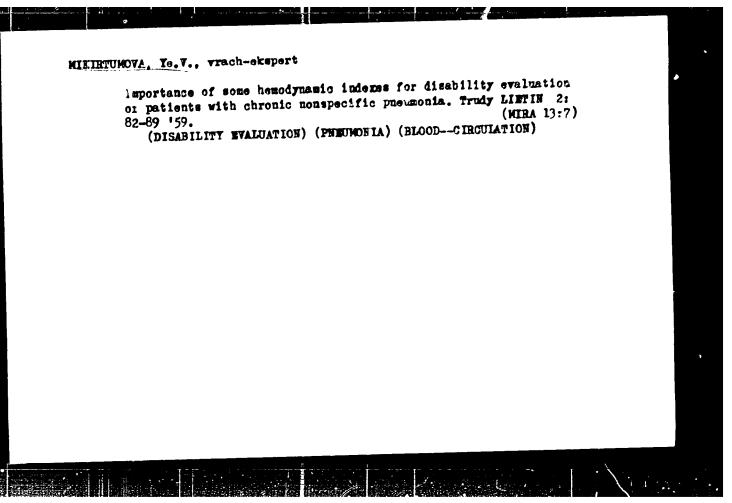
nostop. minute volume (Rus)

MIKETUMOVA, Ye.V. (Loningrad)

A case of chronic montaneous methemoglobinemia. Elin.med.
36 no.7:153-154 Jl '58 (MERA 11:11)

1. 1z klinicheskogo otdala (zav. - prof. M.I. Ehvilivitskaya)
Leningradskogo nauchno-issledovatel'skogo instituta ekspertizy
trudosposobnosti i trudoustroystva invelidov (dir. - kand.med.
nauk P.A. Makkarayakty).

(METHEMOGLOBIN, case reports
chronic spontaneous (Rus))



KHVILIVITSKAYA, Mariya losifovna. Prinimali uchastiya: ADAMOVA, A.V.; BO-GOMAZOVA, V.P.; KALININA, Ye.V.; LIKHNITSKAYA, I.I.; MIKIRTUMOVA, Ye.V.; MIKHAYLOVA, N.F.; NIKIFOROVA, O.A.; SADOP'YEV, A.I.; SZL'KOV, Ye.A.; SOBOLEVA, A.V.; UL'YANOVA, L.S.; KHRUSTINA, S.B.; DEMBO, A.G., red.; KHARASH, G.A., tekhn. red.

[Adjustment of the body following pulmonary resection] 0 prisposobliaemosti organizma posle rezektsii legkogo. Leningrad, Gos. izdvo med. lit-ry Medgis, 1960. 170 p. (MIRA 14:9)

1. Kollektiv klinicheskogo otdela leningradskogo nauchno-issledovatel'skogo instituta ekspertizy trudosposobnosti i organizatsii truda invalidov (for all except Khvilivitskaya, Dembo, Kharash). (IUNGS-SURGERY)

## MIKIRTUMOVA, Ye. V.

Comparative evaluation of certain clinical methods for determining minute blood volume. Terap.arkh. 32 no.12:60-63 \*60. (MIRA 14:2)

1. Iz klinicheskogo otdela (zav. - prof. M.I. Khvilivitskaya) i otdeleniya funktsional nykh metodov issledovaniya (zav. - dotsent I.I. Idkhnitskaya) Leningradskogo nauchno-issledovatel skogo instituta ekspertizy trudosposobnosti i organizatsii truda invalidov. (BLOOD WOLUME)

LIKHNITSKAYA, I.I.; MIKIRTUMOVA, Ye.V.; SAZONOV, K.N.; GERASIN, V.A.

and the print of the

Methods for determining the minute volume of the blood in physiological and clinical investigations. Fiziol. Zhur. 46 no. 7:883-886 Jl '60. (MIRA 13:8)

1. From the clinico-experimental Department, Institute of the Work Capacity Expertise and the Invalid Labour Organization, and the Chair of Hospital Surgery of the Pavlov Medical Institute, Leningrad.

(BLOOD VOLUME)

MIKIRTYCHEV. V.A., inzh.

Building panels made of pressed sunflower husk. Masl.-zhir.
prom. 25 no.8:33 '59. (MIRA 12:12)

1. Saratovskiy maslozavod No.2.
(Saratov--Building materials) (Sunflower seed)

MIKIRTYCHEVA, A.A.

Effect of hydroaproionization in conjunction with other physical factors on hypertension. Med. zhur. Uzb. ao.6:33-35 Je '61. (MIRA 15:1)

1. Iz Uzbekskogo gosudarstvennogo nauchno-issledovatel'skogo instituta kurortologii i fizioterapii imeni N.A.Semashko.
(AIR, IONIZED) (HYPERTENSION)

MIKIRTYCHYAM, K.L. (Toilisi)

Masal reflexotherapy in some forms of headache. Wrach.delo no.5:

\$41 My '57. (MLRA 10:8)

1. Fisioterapevticheskaya bol'nitas
(HEADACHE) (ELECTROTHERAPEUTICS)

Riga, 1958. 2: part (Ministry of Pastic ...onl\*! Latv SSk. Liga led Inst).. (ZI, 10-58, 121).

### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134130004-4

MIKISHA, A.M.; TSITSIN, P.A.

Some problems in the theory of the galactic potential. Astron.zhur. 33 no.6:885-889 N-D 156. (MIRA 10:1)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K. Shternberga. (Stars—Distribution) (Milky Way)

#### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134130004-4

25-6-25/46 USA/Astronomy SUBJECT:

Mikisha, A.M., Scientific Contributor to the Government Astro-

nomical Institute imeni P.K. Shternberga AUTHOR:

Tides and Galactics (Prilivy i galaktiki) TITLE:

PERIODICAL: Nauka i Zhizn' - June 1957, #6, p 50 USSR)

The tides of the sea are caused mainly by the attraction of the

moon. The American astronomer Zwickey has discovered a number ABSTRACT: of galactics which have approached each other so closely that

their mutual tidal influence can clearly be observed by means

of a powerful telescope.

The article contains one photo.

ASSOCIATION:

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SUBMITTED:

At the Library of Congress. AVAILABLE:

Card 1/1

#### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134130004-4

'AUTHORS: Mikisha, A. M. and Tsitsin, F. A.

TITLE: On the distribution of mass in the Galaxy. (K voprosu o

raspredelenii mass v galaktike).

PERIODICAL: Astronomicheskii Zhurnal, 1957, Vol.34, No.1, pp.45-54. (USSR).

ABSTRACT: A

A method for the collemination of the mass distribution in the Galaxy has been given and discussed by Lindblad (1) and Parenago (2). Since neither "rigid rotation" (homogeneous spheroid; force in the galactic plane directly proportional to distance from the centre), nor "Keplerian rotation" (all mass concentrated in the nucleus; force in galactic plane inversely proportional to distance from the centre) are realised in the Galaxy, the above workers concluded that part of the mass is concentrated in the nucleus and the rest is distributed in the Galaxy (uniformly, in the first approximation). Assuming this, they try the following law of force:

 $F = F_1 + F_2 = \alpha R^{-2} + \beta R.$ 

It is now pointed out that the above law is not an empirical one but results from the adoption of the particular model of the Galaxy. In their later work Lindblat and Parenago abandon, in fact, the above model and calculate not the mass of a homogeneous spheroid but the mass of a homogeneous flat disc. The correct formulation of this problem, i.e. the determination of the mass of a uniform spheroid, is given in this paper.

On the distribution of mass in the Galaxy. (Cont.)

The following symbols are used: 5 - density of the nucleus, R - distance of the sun from the centre of the Galaxy, R<sub>G</sub> - radius of the Galaxy, G - gravitational constant, m<sub>1</sub> - mass of the nucleus, M - mass enclosed within a sphere of radius R<sub>0</sub>, M<sub>2</sub> - mass of the Galaxy without the nucleus, M - general mass of the Galaxy (with nucleus), F<sub>0</sub> - force at a distance R<sub>0</sub>, F<sub>1</sub> - derivative of the force, e - density at a distance R<sub>0</sub>, and M<sub>1</sub> and M<sub>2</sub> - parameters to be determined. determined.

Initial distribution. A spherically symmetrical heterogeneous system is fully determined when the density \$(R) is given. The four equations (4) and (8) may be solved for the four unknowns  $9_0$ ,  $8.M_1$ ,  $M_2$ , if a functional form is assumed for  $9(R, M_1, M_2)$ . It has been shown by Kukarkin and Parenago that

 $\mathfrak{g}(\mathbf{R}, \mathbf{M}_1, \mathbf{M}_2) = \mathbf{M}_1 \exp(-\mathbf{M}_2 \mathbf{R})$ 

Assuming this form and putting  $r = 1.5 \text{ Kparsecs}; R_0 = 7.2 \text{ Kparsecs}; R_G = 13 \text{ Kparsecs};$ 

A = 19.5 Km/sec/Eparsecs; B = -13 Km/sec/Eparsecs ore obtains (as a result of the solution of (4) and (8)):  $m_1 = 0.61 \times 10^{1.0} \text{ sun masses}$ 

 $\mathbf{m}_{\text{o}} = 10.7 \times 10^{-10} \text{ sun masses}$ 

On the distribution of mass in the Galaxy. (Cont.)

Homogeneous model. Taking a homogeneous model for the above initial heterogeneous distributions, equations (10), (11), (12), lead to:

 $m_1 = 0.72 \times 10^{11} \text{ sun masses}$ 

 $\vec{m} = 1.79 \times 10^{11} \text{ sun masses}$ 

It may be shown, using equation (8), that

 $\mathbf{g}(\mathbf{R}_0) = \mathbf{g}_0 = 7.96 \times 10^{-25} \text{ gm/cc.}$ 

This is seven to eight times less than the observed value in the Solar Vicinity. This indicates that the density distribution is far from being spherical.

The quantity  $M_2$  is equal to  $-\frac{d}{dR}(\ln \P)$  (see eq.9). In the initial distribution, it turns out to be 0.63 Kparsec<sup>-1</sup>, which leads to  $-\frac{d}{dR}(\lg \P) = 0.2\%$  Kparsecs<sup>-1</sup>

Observational data for this quantity are :

0.25 • 0.27 Kparsecs 1 (spherical component)
0.11 • 0.16 Kparsecs (plane component)

The agreement of the numerical value of the logarithmic gradient of density in the galactic plane with observed value for stars of the spherical component suggests that dynamic influence of the component is higher than is usually assumed.

On the distribution of mass in the Galaxy. (Cont.)

Next, it is supposed that the <u>initial distribution</u> is an heterogeneous spheroid. Here it was assumed that

r = 1.5 Kparsec;  $R_o = 8 \text{ Kparsec};$  A = 19.5 Km/sec Kps; B = -13 Km/sec/Kps.

The symbols used are: r - radius of the equatorial section of the nucleus, R - radius vector in the equatorial plane of the spheroid, M - mass enclosed within a spheroid of major somi-axis R, e - eccentricity of the meridian section of the spheroid, and  $e = \sqrt{1-e^2}$ .

The parameters  $\mathbf{M}_1$ ,  $\mathbf{M}_2$ ,  $\delta$  and  $\mathbf{e}$  are obtained from the set of equations (14), where  $\mathbf{F}_1(\mathbf{R})$  and  $\mathbf{F}_2(\mathbf{R})$  are the attractive forces due to the nucleus and the spheroid respectively. The attraction due to an heterogeneous spheroid with the nucleus removed,  $\mathbf{F}_2(\mathbf{R}_0)$ , is then written down in the form of an integral. The latter is replaced by a sum of finite terms to simplify calculations, and the four equations (14) are solved for  $\mathbf{M}_1$ ,  $\mathbf{M}_2$ ,  $\delta$  and  $\mathbf{e}$ . This leads to the following:

 $m_1 = 3.47 \times 10^{9} \text{ sun masses}$  $m = 1.26 \times 10^{11} \text{ sun masses}$ 

Thus, the mass of the nucleus is 2.75% of the total mass of the initial heteropeneous substitution.

On the distribution of mass in the Galaxy. (Cont.)

Districtive of the second second second process.

If the above initial distribution is represented by a homogeneous model, i.e. a homogeneous spheroid of the same with a nucleus, then

 $m_1 = 0.70 \times 10^{11} \text{ sun masses}$  $m = 1.24 \times 10^{11} \text{ sun masses}$ 

Here the mass of the nucleus is 56.5% of the total mass.

Thus the attempt to represent a heterogeneous spreroidal distribution by a homogeneous model leads to an over-estimation of the mass of the nucleus by a factor of twenty!

The method used above for the model of a heterogeneous spheroid with constant e, may be used to construct a model which will correspond (approximately) to a real Galaxy. In this, the Galaxy is considered as consisting of a homogeneous spheroidal nucleus and of a spheroid of variable density. The latter spheroid is conditionally divided into two spheroidal parts, one inside the other, the two parts being separated by a spheroidal layer through the sun (R = 8 Kps). Here e is taken as variable in the inner spheroid and constant for the outer one. This allows one to disregard the contribution due to the dividing layer which passes through the sun. Thus e = e (R), where

 $e = e_R = constant.$  (R  $\leq$  r) e = aR + b (r  $\leq$  R  $\leq$  R<sub>o</sub>)

On the distribution of mass in the Galaxy. (Cont.)

$$e = e_0 = \text{constant} \quad (R > R_0)$$

$$a = \frac{e_0 - e_r}{R_0 - r} \quad ; \quad b = \frac{e_r R_0 - e_0 r}{R_0 - r} \quad ; \quad e_r = 1/2$$

The following values are then obtained:  $\mu_2 = 1.07 \times 10^{-22} \text{ gm/cc.}$ 

$$-\frac{d}{dR} \lg \mathbf{g} = 0.16 \text{ Kps}^{-1}$$

$$\epsilon_0 = 1/9$$

$$\epsilon(R) = -0.0598R + 0.5897 \quad (r \leq P \leq R_0)$$

$$M_1 = 1.07 \times 10^{-2.2} \text{ gm/cc}$$
  
 $\delta = 0.62 \times 10^{-2.2} \text{ gm/cc}$   
 $M_1 = 0.64 \times 10^{10} \text{ sun masses}$ 

 $\mathbf{m} = 1.87 \times 10^{11} \text{ sun masses}$ 

Thus,  $M_1$  is 3.5% of the general mass. It is pointed out that in the case of a homogeneous spheroidal model the figure was 60% (a factor of 17).

Results of the present paper are summarised in the Table on p.54. Column headings: Number (I), Model (II), logarithmic gradient of density  $\frac{d}{dR}(\lg \varphi)$  (Kps<sup>-1</sup>) (III), Mass of nucleus  $m_1$  (sum masses) (IV) General mass of Galaxy M(V), Relative mass

On the distr by lon of is in the Gallxy. (Co t. of nucleus  $\alpha = \frac{m_i}{m_i}$  (VI), ever-estimation of the plative mass of the nucleus due by assuming homogeneous and elamber  $\frac{\alpha_{hom}}{\alpha}$  (VII), e (VIII).

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In column (II); Row 1: Heterogeneous sphere with spherical homogeneous nucleus; Row 2: Heterogeneous spheroid with a spheroidal homogeneous nucleus (e = const.); Row 3: Heterogeneous spheroid with spheroidal homogeneous nucleus (e variable).

Column VII in the above table indicates that the homogeneous model cannot be assumed even as a rough approximation. Model No.3 leads to an estimation of the mass of the Galaxy and its nucleus, of the density in the galactic plane, and the variation of the concentration of matter in the galactic plane as a function of the distance from the centre of the Galaxy. 2 Tables and 1 Figure. 7 references, 5 of which are Russian.

State Astronomical Institute imeni P. K. Shternberg.

Recd. July 9, 1956.

MinisHA, AM.

Mikisha, A. M. and Tsitsin, F. A. AUTHOR:

33-4-19/19

TITIE:

On the application of the Virial Theorem to the mechanics of stellar systems. (O primenenii teoremy o viriale v dinamike zvezdnykh sistem.)

PERIODICAL: Astronomicheskiy Zhurnal, Vol.34, No.4, 1957 pp. 678-680

ABSTRACT: It is shown that in a system of material points which obey Newton's law of gravitation, and whose moment of inertia is a linear function of time (or a constant), the magnitude of the potential energy is equal to twice the magnitude of the kinetic energy.

It is claimed that this statement is more general than that given by Parenago ("Kurs zvezdnoi astronomii", 3rd ed., page 397). Parenago states that the relation

5.1 + 5 = 0

holds for "stationary or linearly non-stationary systems".

The author gives an example where the system is nonstationary and the condition I = constant is also satisfied (I is the moment of inertia). The Virial

Card 1/2

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CIA-RDP86-00513R001134130004-4"

#### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134130004-4

33-4-19/19
On the application of the Virial Theorem to the mechanics of stellar systems.

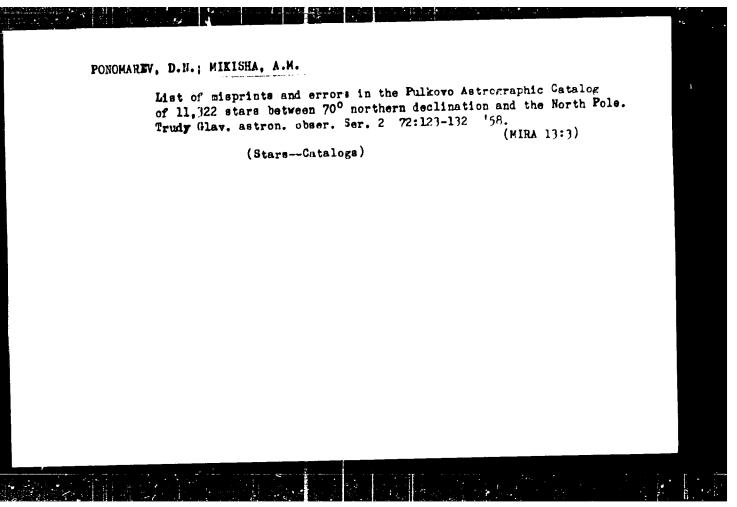
Theorem as formulated by the author applies in this case but in Parenago's formulation it does not. There are no figures, tables or references.

SUBMITTED: January, 30, 1957.

ASSOCIATION: Sternberg State Astronomical Institute. (Gos. Astronomicheskiy In-T im. P. K. Shternberge)

AVAILABLE: Librery of Congress

Card 2/2



S/169/62/000/007/013/149 D228/D307

AUTHORS: Romanyuk, V. A. and Mikisha, A. M.

TITLE: Influence of the geometric shape of a pendulum's knife

edge on its movement

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 7, 1962, 17, ab-

stract 7A111 (Tr. In-ta fiz. Zemli, AN SUSR, no. 18

(185), 1961, 98-124)

TEXT: A differential equation is compiled for a pendulum's movement, with allowance for the influence of the curvature of a cylindrically shaped knife edge. The edge's curvature is taken into account by means of the magnitudes of  $\mathcal E$  and  $\delta$ , which depend on the pendulum's angle of inclination  $\phi$ , and their time derivatives. No allowance is made for the deformation of the knife edge of the pendulum and the pedestal under the effect of their own weight. The problem is solved completely for the case when the equation of the curve of the pendulum's knife edge is given in a parametric form as the graded series:

Card 1/3

S/169/62/000/007/013/149 D228/D307

Influence of the geometric ...

$$\mathcal{E} = \sum_{i=0}^{\infty} \mathcal{E}_{i} \varphi^{i}; \quad \delta = \sum_{i=0}^{\infty} \delta_{i} \varphi^{i}$$

The case, when the equation of the knife edge surface is given in a cylindrical system of coordinates ( $r = r[\theta]$ ), is considered in addition. Here  $\theta$  is the angle between the polar axis and the radius vector of point A -- the knife edge's point of contact with the pedestal in the deflected state. Formulas, allowing the problem to be reduced to what was previously considered and solved, are compiled for this case. Formulas are derived to determine the correction for the influence of the geometric shape of the pendulum's knife edge on its period. The comparison of formulas, formerly applied for the correction to the pendulum's period (for a circular cylindrical knife) with the deduced formulas shows that errors of up to 10 x 10<sup>-7</sup> sec can be tolerated when using the classical formula. The correction to the period of the pendulum's oscillation, Card 2/3

Influence of the geometric ...

S/169/62/000/007/013/149 D228/D307

which is specified by the influence of the parameter of  $d_4$ , has a systematic character and structure of amplitude correction. The influence of the amplitude correction and the influence of the parameter of  $d_4$  mutually compensate each other in separate cases. The period of the pendulum's oscillations does not thereby depend on its amplitude. The influence of the knife edge's geometric shape that the amplitude correction does not always fully take into account the dependence of the period of the pendulum's oscillation on its amplitude. Abstracter's note: Complete translation.

Card 3/3

### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134130004-4

MIXISHA, A.M.; TSITSIN, F.A.

Formula for relexation time. Vest. Mosk. un. Ser. 3: Fiz.,
astron. 20 nc.5.//-77 S-0 '65. (MIRA 18:11)

1. Kafedra zvazdnov astronomii Moskovskogo universiteta.
Submitted June 1, 1964.

#### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134130004-4

AUTHOR:

Mikishev, G.N.

115-5-13/44

TITLE:

Computation of a Dynamic Calibrator in Form of a Cantilever Beam with an Excentric (Raschet dinamicheskogo kalibratora v

vide konsol'noy balki s ekstsentrikom)

PERIODICAL:

"Immeritel'naya Tekhnika", No 5, Sep-Oct 1957, pp 26-28 (USSR)

ABSTRACT:

The article presents a complete computation of a dynamic calibrator for wire tension-indicators, based on the existence of such a cross-section within the length of the cantilever beam where the bending moment does not depend on the vibration frequency (the frequency interval from 0 to the start of natural vibration) and stays equal to the static bending moment in this cross-section. With a properly chosen excentric, which gives harmonic displacements of the beam end, the resistance of a tension-indicator glued to the aforementioned section shall also change harmonically and in proportion to the vibration amplitude of the beam end, and shall not depend on the vibration frequency. An editor's note to the article points out that errors have been committed in the formula for computation of the frequency of beam end's tearoff from the excentric which is contained in V.P. Zakharov's candidate dissertation as well as in the Machinebuilders'

Card 1/2

4,

JUV179-59-1-16/36

AUTHOR: Mikashev, G. N. (Moscow)

Experimental Determination of Ortho-Vibration of a Square Place in Supersonic Flow (Eksperimental noye issledovaniye TITLE: avtokolebaniy kvadratnoy plastiny v sverkhzvakovom potoke)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh mauk, Mekhanika i mashinostroyeniy, 1959, ar 1, pp 154-157

ADSTRAUT: The ortho-vibration (flutter) of a square flat plate placed in an airstream at supersonic speed with M = 1.7, 2.3, 3, was investigated. Two sides of the plate, perpendicular to the stream, were attached while the other two, parallel to the stream, were kept open. Several plates 300 x 300 mm and 250 x 250 mm were employed. Some of them were made of the steel 1Khlen9  $(\sigma_B = 80-120 \text{ kg/mm}^2)$  and the disability D16AT The thickness was variable: 0.5-0.5 mm for steel and 0.5-1.0 mm for duralum: The metion of position-ing in the aerodynamic tube is shown in real to The  $(\sigma = 40 \text{ kg/mm}^2).$ while set was placed horizontally so that the place received the blow at a zero angle from above. In pressure was nea-sured at various points in the middle of the stream and by the sides of the plate. The tensometers were used for deter-Card 1/4 mination of the beginning of vibrations as well as their

CIA-RDP86-00513R001134130004-4" **APPROVED FOR RELEASE: 06/14/2000** 

DUV/179-4 -1- 0/35

Experimental Determination of Ortho-Vioration of a square Place in Supersonic Flow

frequency and type. The cables were carried outside through the walls of the tube. The results showed that loans fore intensive vibrations of the place, the spectrum of relative frequencies was distorted, which a ferred the vibration. Fig. 3 shows the original type of vibration before distorted. The vibrations at points 2, 3 and 4 are shown in Fig. 4, A and ab + beginning of vibration with lamping, v, g - intensive vibration with no damping effect. The evaluance of the standing waves could be seen on a cinemotograph of a steel place 0.3 mm thick (Fig. 5). The destruction of the plate took place when the intensive ortho-vibration produced running waves (Fig. 5, 9-14). The photograph of a destroyed 0.5 mm thick steel plate is shown in Fig. 6. The durability could be calculated from the formula:

Card 2/4

1/17/-1.-1- 5/35

Experimental Determination of Ortho-Vibration of a Square Plate in Supersonic Flow

$$\lambda = \frac{a^3 p n}{D} \beta_{1.2}$$

$$\left(\beta_1 = M, \ \beta_2 = \frac{M^2}{\sqrt{M^2 - 1}}, \ M = \frac{c}{c_0}\right)$$

where a - length of plate, D - rigidity, p - pressure in the non-disturbed stream,  $\kappa$  - coefficient of polytropy, c,  $c_0$  - velocities of the stream and sound respectively. The value of  $\lambda$  was calculated by A. A. Movchan as being equal to 814. Figs.7 and 8 show the results of the experimental data of plate durability (dotted line -  $\beta_1$ , continuous line -  $\beta_2$ , the ratio of thickness to length of the plate is plotted along the abscissa, and the ratio of pressure to the foun;'s modulus - on the ordinate). The experimental dots in Figs.7 and 8 were obtained as a mean of several tests: the first two dots represent a steel plate, the third dot represents a duralumin plate. The curves were calculated from a theoretical

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Experimental Determination of Ortho-Vibration of a Square rlate in Supersonic Flow

formula. As can be seen, both the theoretical calculation and experimental data show agreement. There are 5 figures and 1 Soviet reference.

SUBMITTED: June 9, 1958.

Jard 4/4

29.064 \$/179/61/000/004/007/019 E195/E335

26.2145 AUTHORS:

: Mikishev G N and Dorozhkin N Ya

TITLE:

Experimental investigation of free oscillations of

liquids in vessels

PERIODICAL Akademiya nauk SSSR Izvestiya Otdeleniye

tekhnicheskikh nauk. Mekhanika i mashinostroyeniye.

no. 4, 1961 pp 48 - 53

TEXT: Free damped oscillations of liquids are defined by two basic parameters: natural frequency of (rad/sec) and damping coefficient of this article is an account of experimental investigations on determination of these parameters in relation to relative fluid depth, relative amplitude of oscillation, Reynolds number and surface tension. The choice of liquids and size of tanks was considered from the point of view of obtaining the widest range of Reynolds number. The liquids varied in viscosity from 0.38 - 1.8 centistokes and tank diameters were in the range of 200 - 1 500 mm. The wave propagation was achieved by standard means but oscillogram recordings were made with the use of a specially designed transmitting Card 1/6.

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27/64 5/179/61/000/004/007/019 E195/E335

Experimental investigation ...

element. This element consisted of two metal plates which were lowered into the liquid and attached to the tank wall. For liquids which are good conductors the element reacted to the change in the active and capacitive components of conductivity whilst in the case of liquids which are poor conductors the element constituted a flat condenser which changed its capacitance with fluctuations in liquid level. By virtue of its sensitivity (2 000 to 1 magnification on the oscillogram) the element could be used for almost any fluid. The damping coefficients were determined from the curves of free damped oscillations and natural frequencies were obtained from oscillograms. In the case of the flat-bottomed cylinder it was established that natural frequencies and damping coefficients were both independent of amplitude variations up to the value of a = 0.1 r and of

fluid depth, for depth  $h > r_o$ . Natural frequencies showed hardly any variation with Reynolds number and were not influenced by surface tension for tanks of diameter over 100 mm, damping coefficients, however, whilst remaining independent of surface tension for tank diameters exceeding 400 mm, were for smaller Card 2/6

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Experimental investigation . .

sizes rising rapidly with the increase in surface tension (-1/2) Damping coefficients were also shown to be a function of R (-1/2) This means that Reynolds number similarity must be considered when applying model results for prototypes. On the basis of experimental data the following empirical formulae may be used for calculations of damping coefficients.

$$\delta = \frac{0.45 \text{ NN}}{\sqrt{R}} \left[ \frac{1.3}{\text{sh} \ 1.84 \text{h/r}_{0}} \left( \frac{1 + \text{h/r}_{0}}{\text{ch} \ 1.84 \text{h/r}_{0}} + 1 \right) + \frac{1}{1.09} \right]$$
 (2.1)

For a fluid depth  $h > r_0$  and smooth tanks, the above

formula may be approximated to

$$\delta = \frac{1.84 \, \pi}{\sqrt{R}} \tag{2.2}$$

A theoretical formula  $(\delta = 1.3 \text{T}/\text{R}^{1/2})$  obtained by B.I. Rabinovich and based on boundary-layer theory gives Card 3/6

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29<sup>0</sup>64 \$/179/61/000/004/007/019 E195/E335

Experimental investigation ...

values of  $\delta$  , 30-40% lower. The investigation was extended to include tanks of both spherical and conical shapes. Natural frequencies and damping coefficients were determined from the fomulae.

$$\omega = c_1(g/r_0)^{1/2}$$
  $\delta = c_2 1.84 \tau / (R_0)^{1/2}$ 

for spheres, and

$$\omega = C_1 \Omega s_1 / r_0^{1/2}$$
  $\delta = C_2 1.8477 / (R_0^{1/2})$ 

for cones, where  $r^o$  is the radius of the free surface and  $r_o$  is the radius of spheres. The dependence of  $C_1$  and  $C_2$  in spheres, on relative depth is shown in Figs. 14 and 15. For cones the variation of  $C_1$  and  $C_2$  with inclination angle  $\alpha$  is shown in Figs. 16 and 17. The cone formulae were obtained for fluid depths  $h > r_o$  and for amplitudes of up

Card 4/6

2) 6h 5/179/61/ccc/cc4/cc7/c19 E195/3335

to 0.01  $r^0$  at the wall. For amplitudes exceeding 0.01  $r^0$  and angles of inclination  $\alpha>10^\circ$  the damping coefficient does depend on the amplitude of ascillations; thus, when  $\alpha=17^\circ$  and the amplitude equal 0.1  $r^\circ$  the value of damping coefficient is doubled.

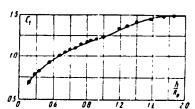
There are 17 figures and 1 Soviet reference.

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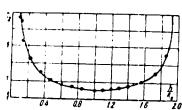
April 7, 1961

Experimental investigation ....

Fig. 14:







\*

Card 5/6

MIKISHEV, G.N.; RABINOVICH, B.I. (MOBCOW)

"Some problems of the analysis of dynamical characteristic of mechanical systems with deformable elements."

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

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L 13198-65 EWP(a)/EPI(n)-	2/EHT(1)/ENT(m)/EHA(d)/EHP(w) Pd-1/Pu-4 EM/WH	
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AUTHORIZHELE HOUSE		
TITLE: An experiments	1 study of disturbed motion of a solid body	
having cavities partie	ily filled with liquid	1 4
COUPCE A Koomiche elitue	issledovaniya, v. 3, no. 2, 1965, 208-220	
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ing, hydrodynault coeff	icient	7
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bowles contities note la	114 filled with liquid by means of experimental	
mathoda. The experime	ntal studies are based on mechanical models	
	hapes and locations (with respect to the center similar to the original system. An analysis	
a contact and the contract to	arta indicates that physical simulation can be	0
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	are analyzed. One exper mental method developed	
by the author for an		
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presented & damping osc	ives good	results when the of the liquid	ie logarithmic de logarithmic de	0.2. Howeve	r, in ds that	
value. As determined	by the exp	erimental meth	od are present	at bottom, 81	here,	
by B. I. R	binovich	ind others (Kos	on of results	shows that for	the .	
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SOV/138-58-8-10/11

Volonchunas, A. O; Shkikunas, V. and Mikisheva, A. P. AUTHORS:

Application of Designs on Rubber Boots (Nameseniye TITLE: risunka na tsvetnyye rezinovyye sapozhki)

PERIODICAL: Kauchuk i Rezina, 1958, Nr 8, p 36 (USSR)

Previous methods of applying designs by typographic ABSTRACT:

methods and special transfers are mentioned. authors used this latter method and applied the adhesive "Nairit" on a 6% natural rubber solution and subsequent vulcanisation. The colour of dyes change slighly during vulcanisation. Satisfactory results were obtained when the designs were applied on nonvulcanised rubber with offset colours. After vulcanisation it is recommended to apply colourless lacquer based on SKB rubber. There is 1 Picture.

ASSOCIATION: Kombinat "Inkaras" ('Inkaras" Combine)

Card 1/1

CIA-RDP86-00513R001134130004-4" **APPROVED FOR RELEASE: 06/14/2000** 

AID P - 2668

MIKISHIN, N.

b)bject : USSR/Aerodynamics

Card 1/1 Pub. 58 - 6/20

Author : Mikishin, N.

: In my flying group Title

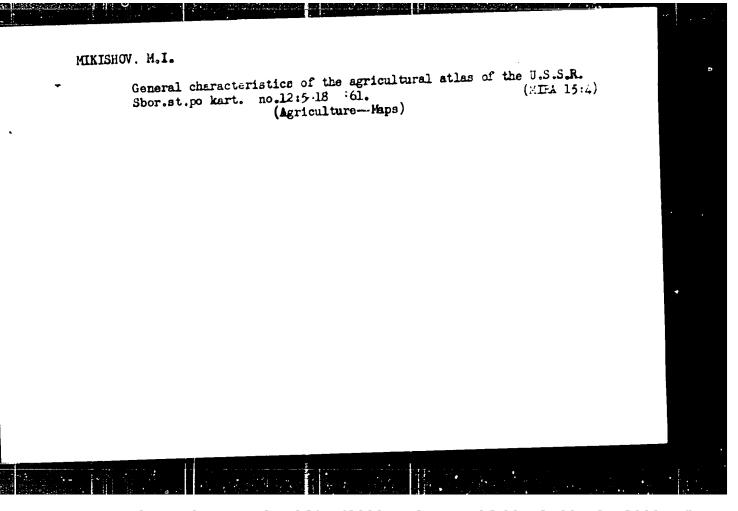
Periodical : Kryl. rod., 7, 8-9, J1 1955

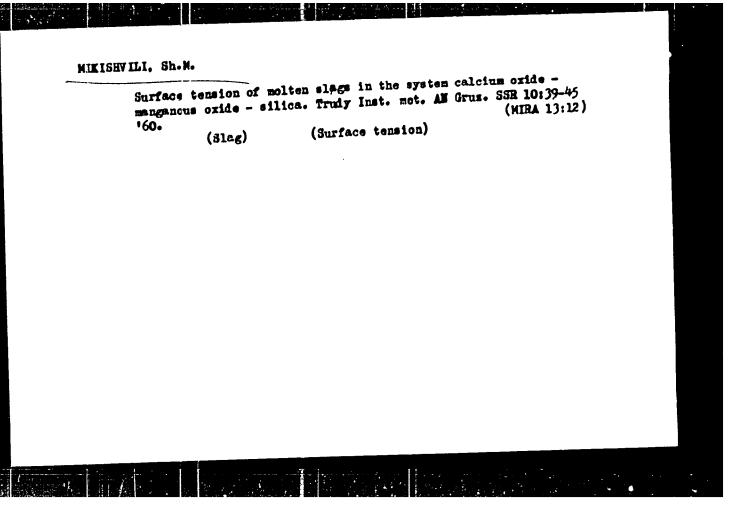
: The author, an instructor, reports how he organized Abstract and directed the training of his group. Names are

mentioned. Photo of the members of the group.

Lastitution : Regional Aeroclub of Khar'kov

Submitted : No date





BENESOVA, O.; HDRVATH, M.; MIKISKA, A.

Determination of depth and duration of narcosis according to electrophysiological properties of the cerebral cortex. Cesk. fysiol. 5 no.2:168-173 23 June 56.

1. Kostrolni ustav farmaceuticky, Praha, Ustav bygieny prace a chorob z povolani, odd. fysiologie vyssi nervove cinnosti, Praha.

EEO of electrophysiol. properties of cerebral cortex in determ. of depth & duration of anesth. (CE))

(ELISTREENCEPHALOGRAPHY.

determ. of depth & duration of anesth. by electrophysiol. properties of cerebral cortex (CE))

Evaluation of depth and duration of anesthesia according to electrophysiological properties of the cerebral cortex. Physiol. bohem. 5 no.2:188-194 1956.

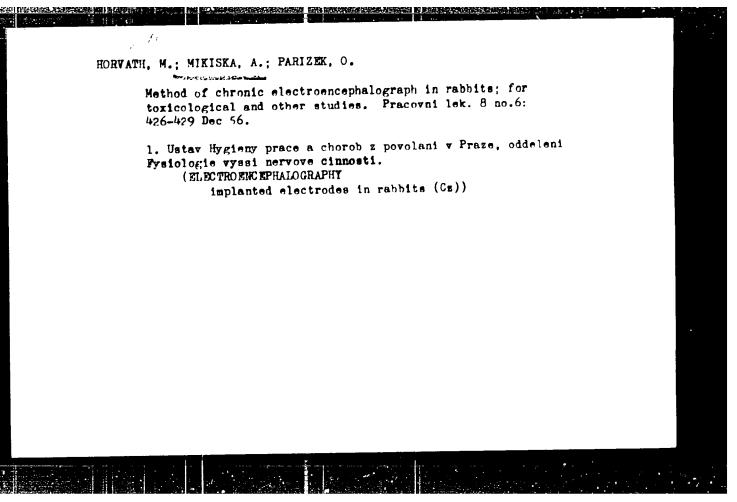
1. Vortrag am. 3. Ganzstaatlichen Kongress der tschsl. Physiologen, Pharmakologen und Biochemiker in Prag vom 19. bis 22. 10. 1954. Pharmazeutisches Kontrollinstitut, Prag Institut fur Arbeitshygiene, Abt. Physiologie der Hoheren Nerventatigkeit, Prag.

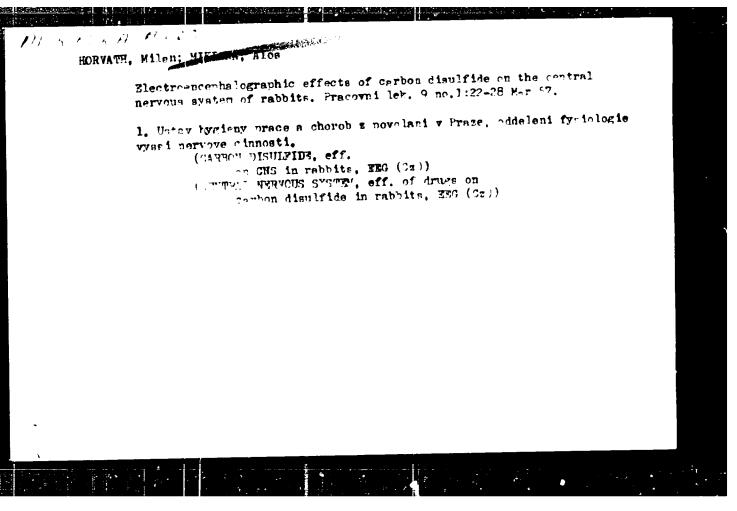
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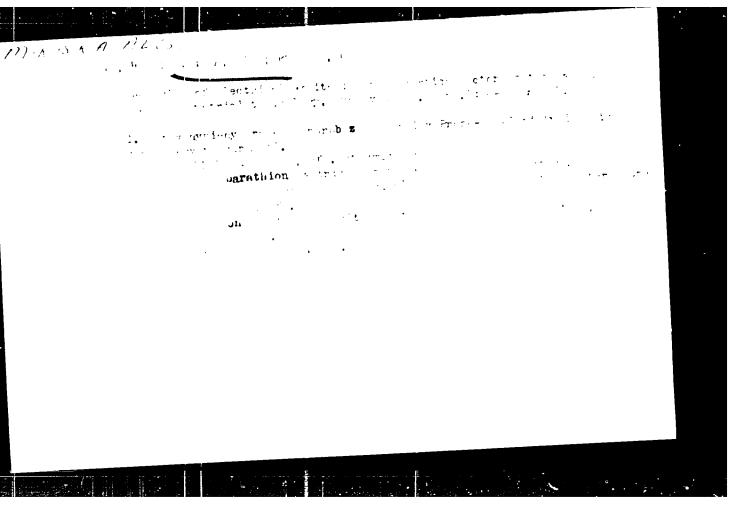
EEG determ. of depth & duration (Ger))

[ELECTRO ENCEPHALOGRAPHY.

in anesth., determ. of depth and duration (Ger))







#### MIKISKA, Aloe

Relay equipments for measuring the reaction time. Activ. nerv. sup. 3 no.2:187-190 161.

1. Ustav hygieny prace a chorob z povolani, Praha (reditel prof. J. Teisinger), oddeleni fyziologie v. n. c.

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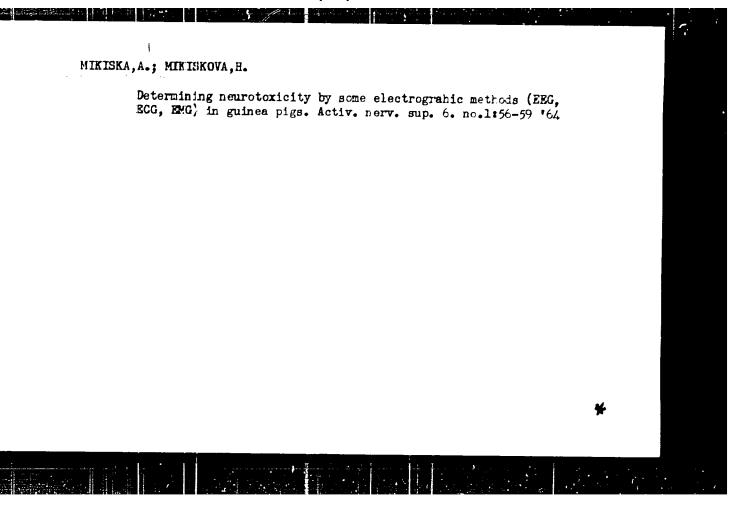
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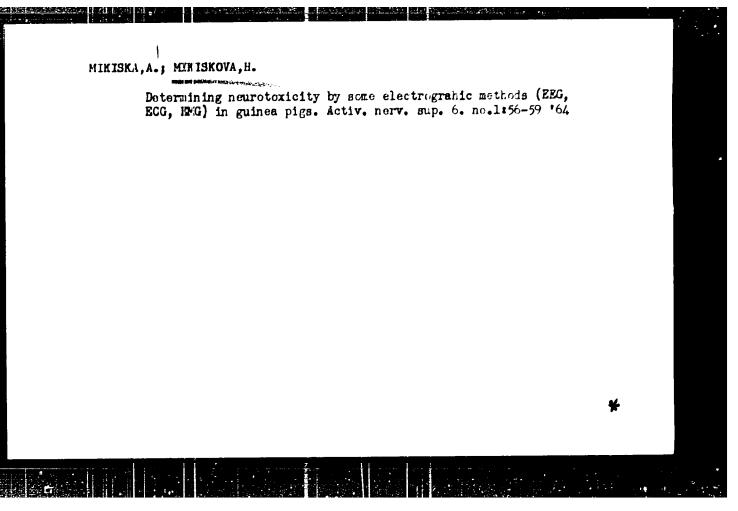


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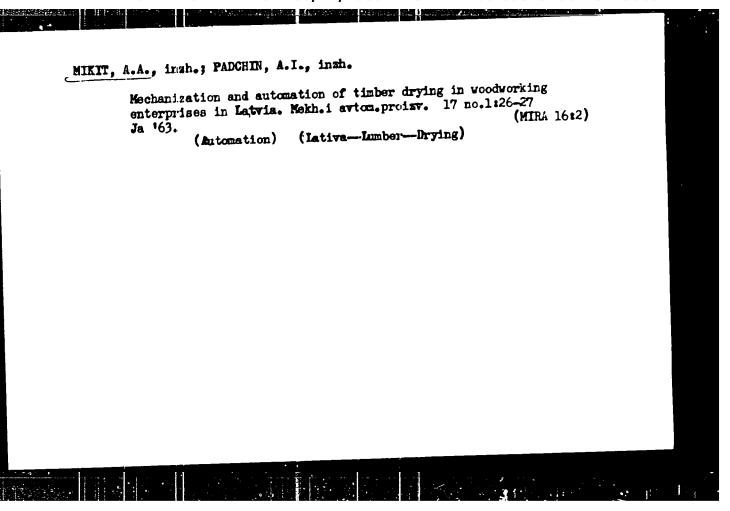
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